

Figure 1: Orthogonal View of Cross Section of Traces

Figure 2: END-ON VIEW OF TRACE SUSPENDED IN AIR
 Basic Structure of suspended substrate
 in printed wiring board (PCB)

End-on view of conductive trace
 surrounded by air
 suspended on dielectric
 dielectric suspended between conductive planes
 conductive planes acting as ground return for conductive trace

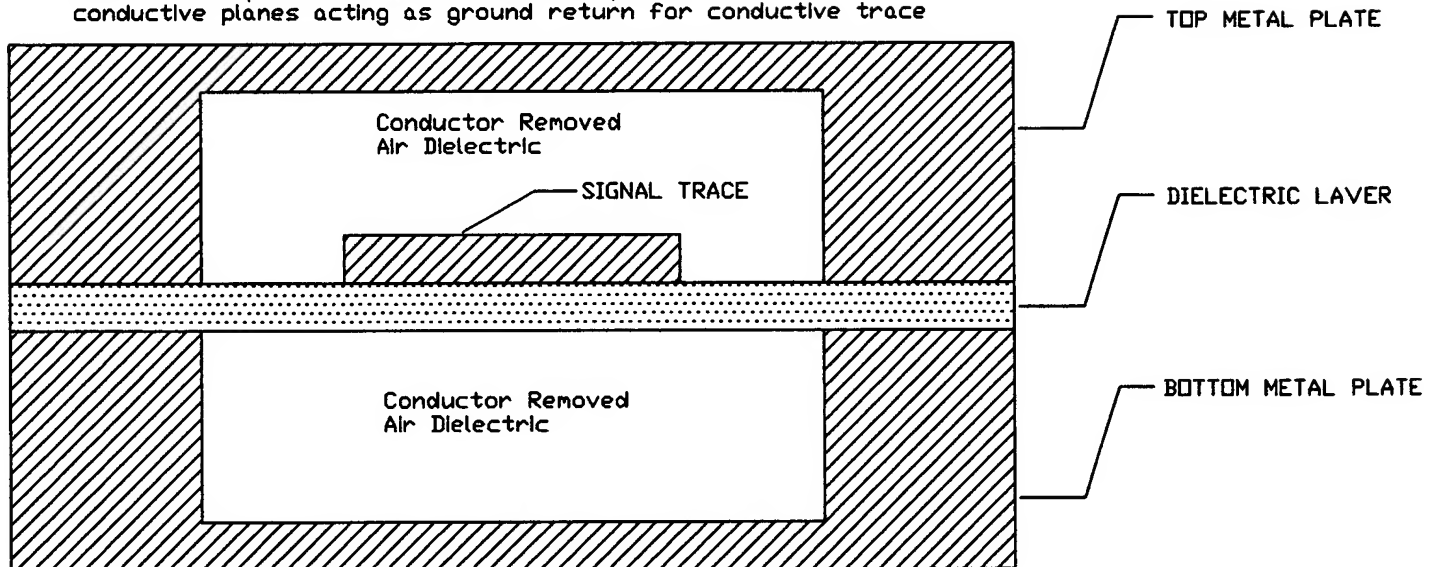


Figure 2A: END-ON VIEW OF TRACES SUSPENDED IN AIR
 Basic Structure of suspended substrate
 in printed wiring board (PCB)

End-on view of conductive traces
 surrounded by air
 suspended on dielectric
 dielectric suspended between conductive planes
 conductive planes acting as ground return for conductive trace
 DIFFERENTIAL TRACES

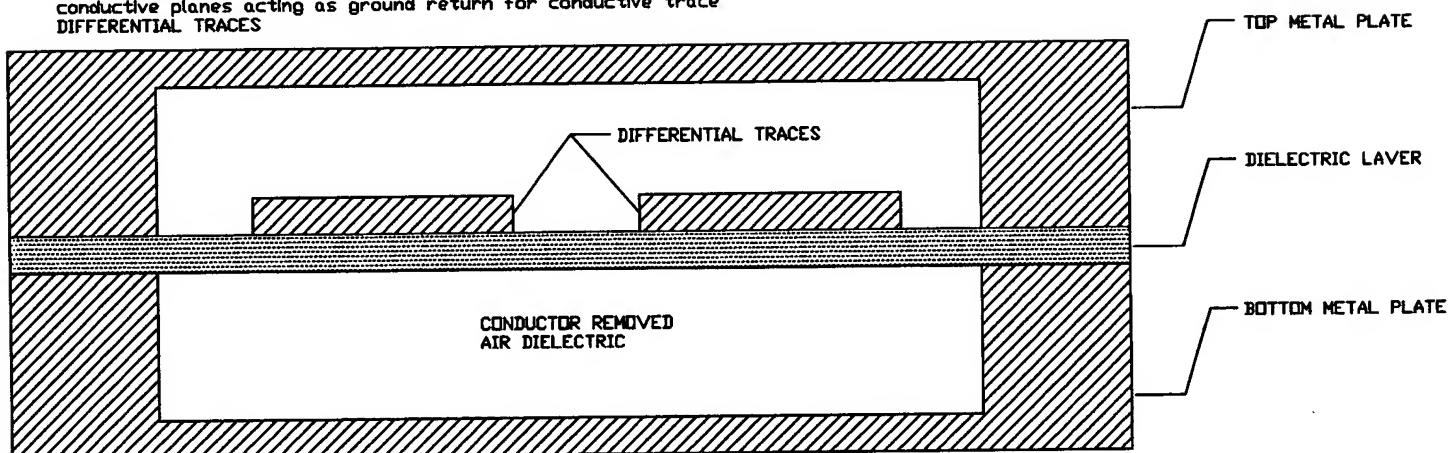


FIGURE 2B: END-ON VIEW OF TRACES SUSPENDED IN AIR
 Basic Structure of suspended substrate
 in printed wiring board (PCB)

End-on view of conductive traces
 surrounded by air
 suspended on dielectric
 dielectric suspended between conductive planes
 conductive planes acting as ground return for conductive trace
 DATA BUS

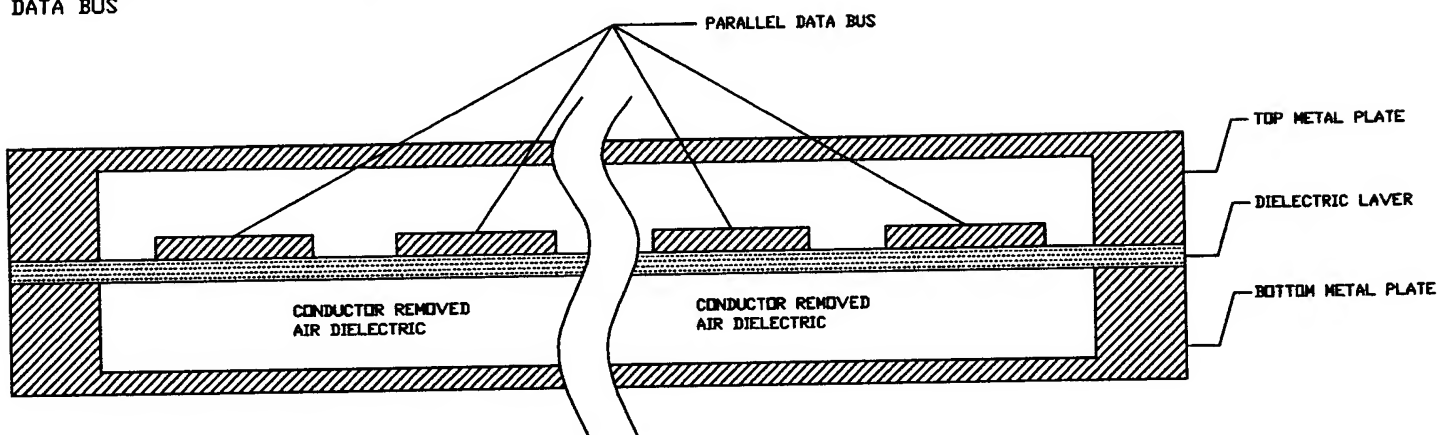
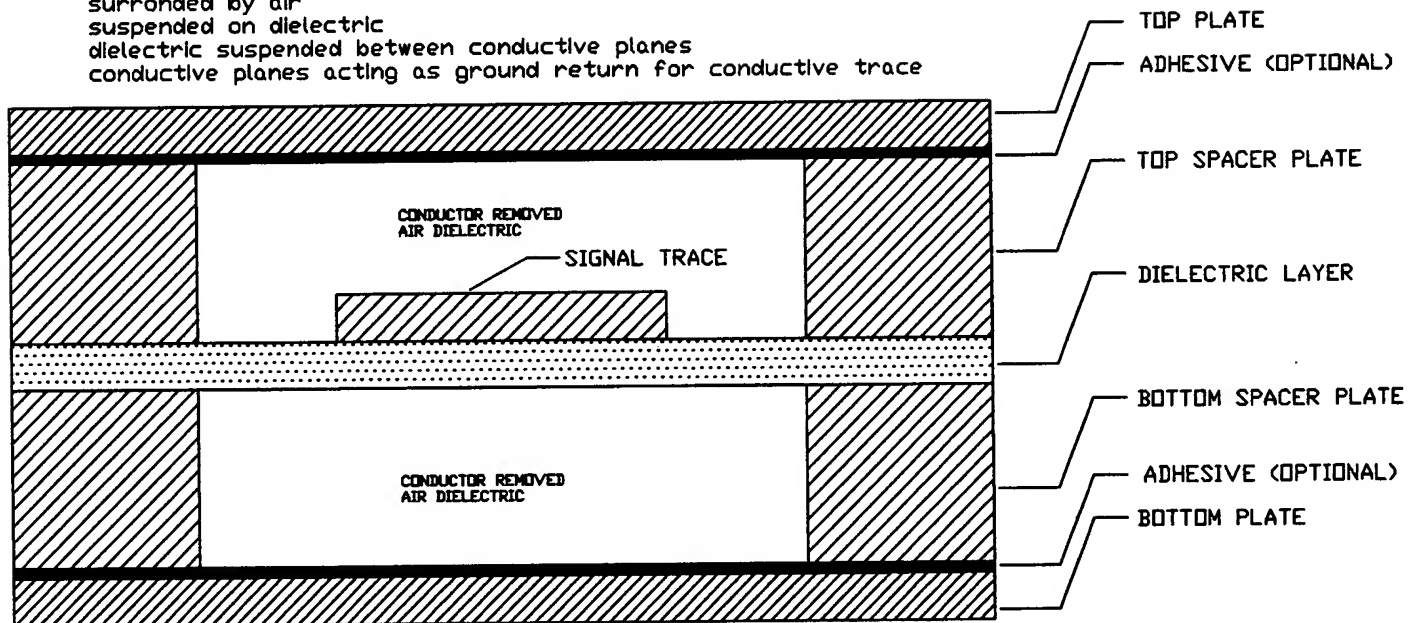


Figure 3: END-ON VIEW OF TRACE
(ALTERNATE CONSTRUCTION)
Basic Structure of suspended substrate
in printed wiring board (PCB)

End-on view of conductive trace
surrounded by air
suspended on dielectric
dielectric suspended between conductive planes
conductive planes acting as ground return for conductive trace



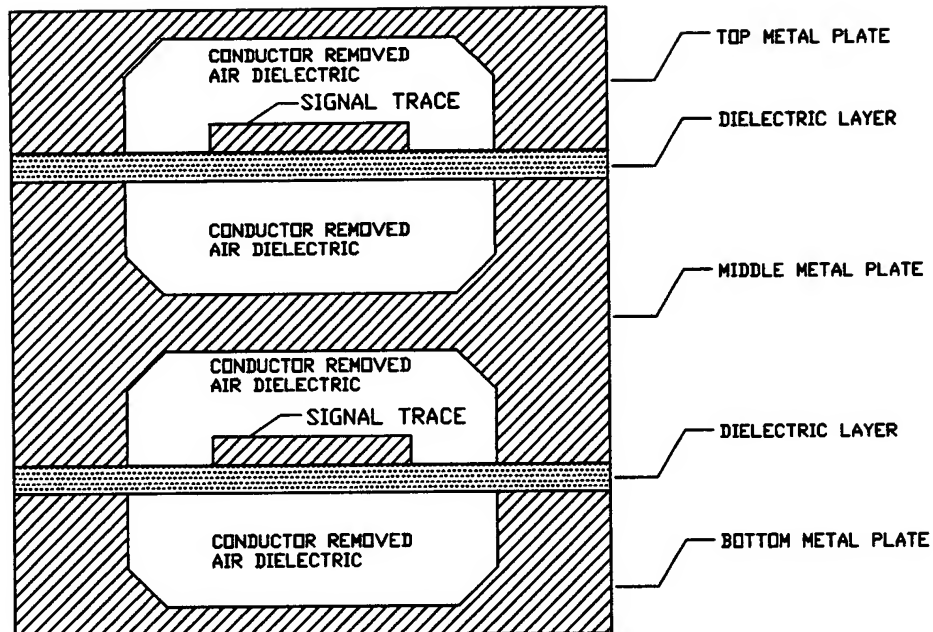


FIGURE 4: END-ON VIEW OF TRACES SUSPENDED IN AIR
STRUCTURE OF TWO TRACES ON DIFFERENT
LAYERS SUSPENDED SUBSTRATE IN PRINTED
WIRING BOARD (PCB).

END-ON VIEW OF CONDUCTIVE TRACES
SURROUNDED BY AIR
SUSPENDED ON DIELECTRIC
DIELECTRIC SUSPENDED BETWEEN CONDUCTIVE PLANES
CONDUCTIVE PLANES ACTING AS GROUND RETURN FOR CONDUCTIVE TRACES

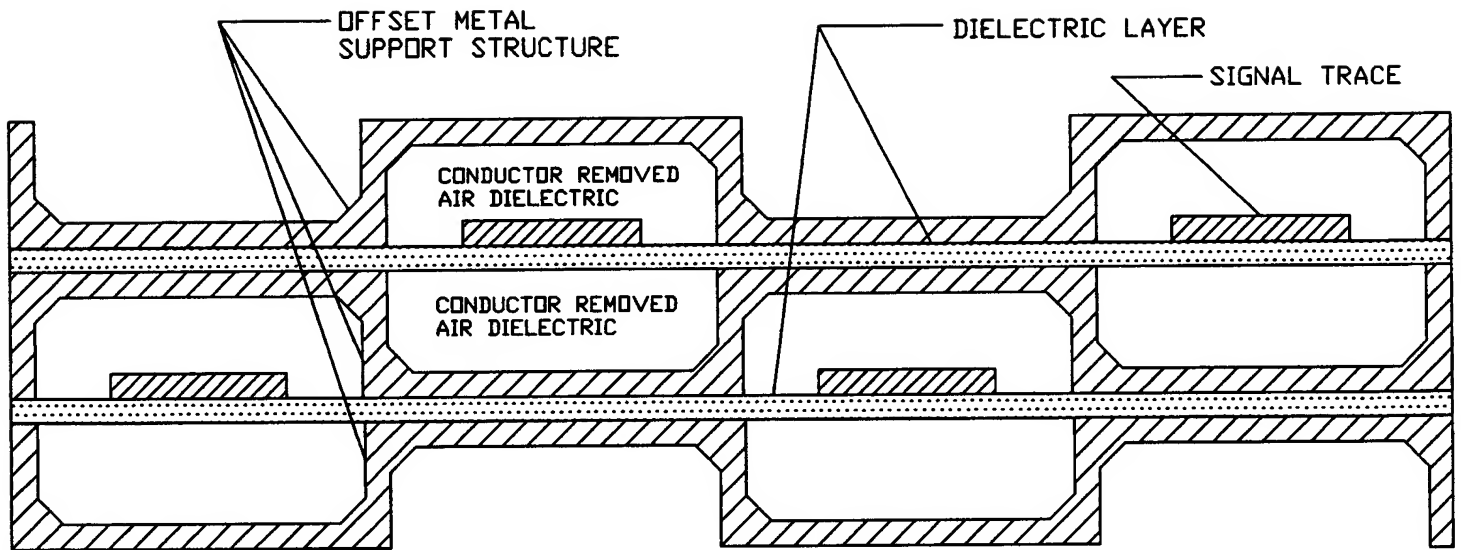


FIGURE 5: END-ON VIEW OF OFFSET CONDUCTIVE TRACES USING OFFSET METAL SUPPORT STRUCTURE.

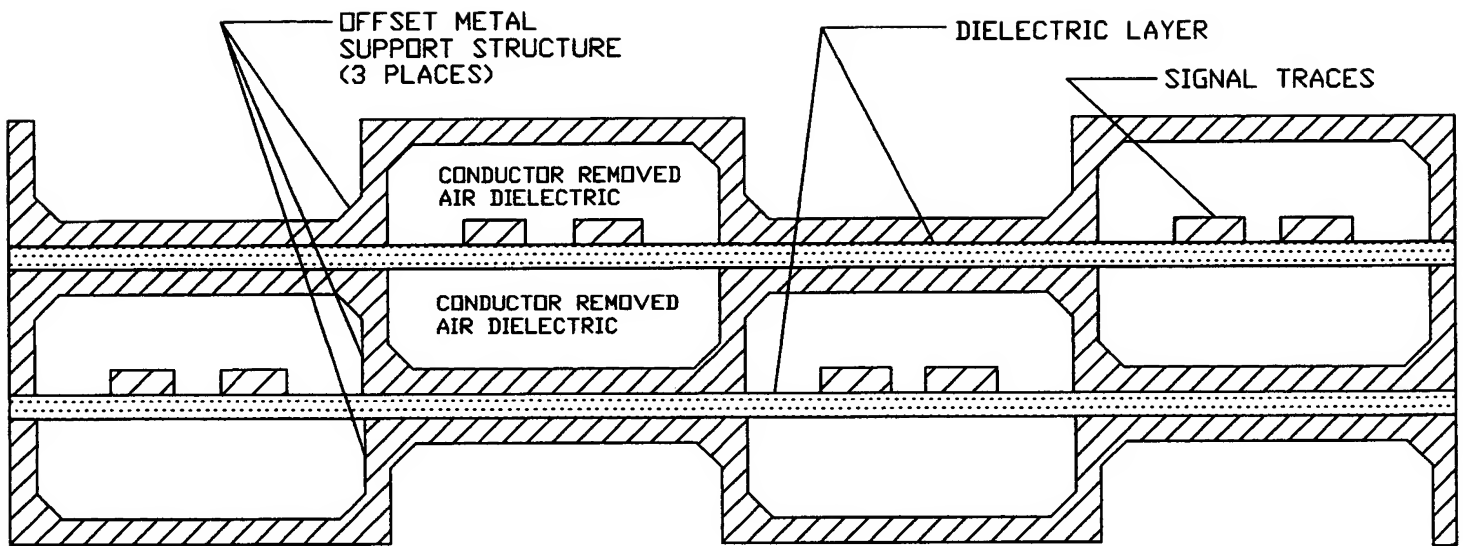


FIGURE 5A: END-ON VIEW OF OFFSET CONDUCTIVE TRACES USING OFFSET METAL SUPPORT STRUCTURE, AND DIFFERENTIAL TRACES